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INTERNATIONAL PRELIMINARY EXAMINATION REPORT

(PCT Article 36 and Rule 70)

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Applicant's or agent's file reference 03511C84				FOR FURTHER ACTION See Notification of Transmittal of International Preliminary Examination Report (Form PCT/IPEA/416)					
International application No. PCT/IB 03/02946				International filing date (c 24.07.2003	day/month	dyear)	Priority date (day/month/year) 26.07.2002		
International Patent Classification (IPC) or both national classification and IPC									
C08B37/08									
	·								
Applicant JASPER LTD LIABILITY CO. et al									
<u> </u>									
1.	 This international preliminary examination report has been prepared by this International Preliminary Examining Authority and is transmitted to the applicant according to Article 36. 								
2.	This REPORT consists of a total of 5 sheets, including this cover sheet.								
		Thia	report is also accompa	nied by ANNEYES i.e.	sheets o	f the description	on, claims and/or drawings which	have	
	Ц	heer	amended and are the	basis for this report and	or sheet	s containing re	ectifications made before this Au	thority	
		•		607 of the Administrati	ve msuu	ictions under t	ne FOT).		
	Thes	e anr	nexes consist of a total of	of sheets.					
3.	This	renor	t contains indications re	elating to the following ite	ems:				
0.	,								
	11	⊠□	Basis of the opinion						
	11 135		Priority	oninion with regard to n	oveltv. ir	nventive step a	and industrial applicability		
	iV		Lack of unity of invent						
	V Reasoned statement under Rule 66.2(a)(ii) with regard to novelty, inventive step or industrial applicability; citations and explanations supporting such statement				bility;				
	V١		Certain documents cit				,		
	VII			international application					
	VIII			on the international appl					
Date of submission of the demand					Date of	completion of th	is report	_	
10.02.2004					16.09.	.2004			
Name and mailing address of the international preliminary examining authority:						zed Officer	Alfeb.	se Patanteray	
——— European Patent Office							<u>.</u>		
D-80298 Munich Tel. +49 89 2399 - 0 Tx: 523656 epmu d					Gerbe	er, M	·	الرو	
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INTERNATIONAL PRELIMINARY EXAMINATION REPORT

International application No.

PCT/IB 03/02946

١.	Basis	of the	report
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1. With regard to the **elements** of the international application (Replacement sheets which have been furnished to the receiving Office in response to an invitation under Article 14 are referred to in this report as "originally filed" and are not annexed to this report since they do not contain amendments (Rules 70.16 and 70.17)):

	Des	cription, Pages							
	1-18		as originally filed						
	Claims, Numbers								
	1-25		as originally filed						
2.	With lang	regard to the langua	ge, all the elements marked above were available or furnished to this Authority in the ernational application was filed, unless otherwise indicated under this item.						
	The	e elements were available or furnished to this Authority in the following language: , which is:							
		the language of a translation furnished for the purposes of the international search (under Rule 23.1(b)).							
		• •	cation of the international application (under Rule 48.3(b)).						
•			nslation furnished for the purposes of international preliminary examination (under						
With regard to any nucleotide and/or amino acid sequence disclosed in the international applica international preliminary examination was carried out on the basis of the sequence listing:									
		contained in the inter	national application in written form.						
		filed together with the	e international application in computer readable form.						
		furnished subsequen	tly to this Authority in written form.						
			tly to this Authority in computer readable form.						
		The statement that the international approximation of the international approximation of the statement of th	ne subsequently furnished written sequence listing does not go beyond the disclosure oplication as filed has been furnished.						
		The statement that the listing has been furni	ne information recorded in computer readable form is identical to the written sequence shed.						
4.	The	amendments have re	esulted in the cancellation of:						
		the description,	pages:						
		the claims,	Nos.:						
		the drawings,	sheets:						
5.		This report has been been considered to g	established as if (some of) the amendments had not been made, since they have go beyond the disclosure as filed (Rule 70.2(c)).						
		(Any replacement sh report.)	neet containing such amendments must be referred to under item 1 and annexed to this						
6.	Ado	litional observations, i	f necessary:						



International application No.

PCT/IB 03/02946

- V. Reasoned statement under Article 35(2) with regard to novelty, inventive step or industrial applicability; citations and explanations supporting such statement
- 1. Statement

Novelty (N) Yes: Claims 7, 8, 10-18, 20

No: Claims 1-6, 9, 19, 21-25

Inventive step (IS) Yes: Claims

No: Claims 1-25

No. Claims 1-2

Industrial applicability (IA) Yes: Claims 1-20

No: Claims

2. Citations and explanations

see separate sheet



Re Item V

Reasoned statement under Article 35(2) with regard to novelty, inventive step or industrial applicability; citations and explanations supporting such statement

Reference is made to the following documents:

D1: EP-A-0 555 898 (FIDIA SPA) 18 August 1993

D2: WO 00 01733 A (BELLINI DAVIDE ;FIDIA ADVANCED BIOPOLYMERS

SRL (IT); TOPAI ALESSAN) 13 January 2000

1. Novelty

1.1. D1 anticipates the subject-matter of claims 1-6, 9, 19 and 21-25 (Article 33(2) PCT).

D1 is directed to a medicament comprising a partial or stoichiometrically neutral salt of hylauronic acid with at least one pharmacologically active substance being for instance adenine arabinoside or fluorouracil (see claims 3 and 7). The preparation of the salts is carried out by bringing together solutions or suspensions in water or in organic solvents of the two components or salts thereof (see page 8, lines 5-15, and page 15, lines 21-47).

1.2. The same applies to D2 since this document discloses a salified or simply associated amide derivative of hyaluronic acid with a pharmaceutically active compound derived from purine or pyrimidine (see the passages cited in the international search report and especially page 7, lines 3-6).

2. Inventive step

D1 is considered to represent the most relevant state of the art.

The subject-matter of claim 7 differs from the derivative of hyaluronic acid of D1 in the kind of heterocyclic compound derived from purine and/or pyrimidine chosen to form a salt therewith.

The problem to be solved by the present invention may therefore be regarded as to provide a further derivative of hyaluronic acid with an heterocyclic compound derived from purine and/or pyrimidine.





The list of compounds of claim 7 is believed to provide the same advantages as in D1. Furthermore, the skilled person would regard it as a normal option to include these compounds in the derivative described in document D1 in order to solve the problem posed. In the absence of an effect over the prior art, an inventive step cannot be acknowledged for the subject-matter of claim 7 (Article 33(3) PCT).

Dependent claims 8 and 10-18, as well as process claim 20 do not contain any features which, in combination with the features of any claim to which they refer, meet the requirements of the PCT in respect of inventive step.

3. Industrial applicability

- 3.1. The subject-matter of present claims 1-20 appears to comply with the requirements of industrial applicability as stipulated in Article 33(4) PCT.
- 3.2. For the assessment of the present claims 21-25 on the question whether they are industrially applicable, no unified criteria exist in the PCT Contracting States. The patentability can also be dependent upon the formulation of the claims. The EPO, for example, does not recognize as industrially applicable the subject-matter of claims to the use of a compound in medical treatment, but may allow, however, claims to a known compound for first use in medical treatment and the use of such a compound for the manufacture of a medicament for a new medical treatment.